




Section Reference	Section Titles	Final Change in DCM
1.3.4	CHARACTERISTICS/BASIC REQUIREMENTS OF ELECTRIC SERVICE - Service Point	<p>Service Point (Point of Delivery or Point of Service)</p> <p>Unless otherwise specified by AE Design or specified in the Agreement for Electric Service (Letter of Agreement), the service point is the point (meter socket, pedestal, service distribution enclosure, pull-box (all single-phase service), transformer or other AE-approved enclosure) at which AE's and Customer's conductors are connected or terminated. (AE shall make these connections/terminations.)</p>
1.3.9	CHARACTERISTICS/BASIC REQUIREMENTS OF ELECTRIC SERVICE Single-Phase/Three-Phase Service	<p>Change to: EXCEPTION: For all three-phase self-contained meter sockets with secondary service voltages above 300v up to 600v, phase to phase or leg to leg, a service load break disconnect switch shall be installed in close proximity to, and on the line side (ahead) of, the metering equipment. [Line-Disconnect-Meter-Load] Note: This exception applies to any self-contained 277/480v, or straight power 480v, service at or below 400amps. This exception does not apply to instrument rated or CT (current transformer) meters, or any service larger than 400 amps.</p>
1.3.12	CHARACTERISTICS/BASIC REQUIREMENTS OF ELECTRIC SERVICE - AE Line Extension Policy	<p>ADD: In accordance with Austin City Council Resolution No. 20140612-057, Austin Energy collects 100% of the costs for line extensions and new infrastructure associated with requests for new electric service, with an exemption for certain affordable housing. A Customer applying for new service will be charged all estimated costs for labor and material required to modify existing infrastructure and to extend service from Austin Energy's existing infrastructure to the Customer's point of service to serve the requested load, sometimes referred to as "Contributions in Aid of Construction", or "CIAC". This includes the service drop and meter.</p> <p>Customers seeking an affordable housing exemption for all or a portion of these costs must provide Austin Energy with documentation from the Neighborhood Housing and Community Development Department demonstrating that the Customer's premises meet City standards for affordable housing. If the affordable housing standard is met, a waiver shall be applied to the portion of the line extension fees attributed to serving the affordable housing portion of the residential portion of the development according to the following formula:</p> <p style="text-align: center;">Line Extension Fees * % of Development that is Residential Affordable Housing Based on Square Footage</p> <p>For mixed use development the % of Development that is Residential Affordable Housing Based on Square Footage should be based on the combined residential and commercial square footage (i.e., the entire building area).</p> <p>The line extension fees subject to waiver is limited to costs associated with standard electric service. Any excess costs and/or excess facilities that exceed what Austin Energy would provide as adequate and reliable standard electric service to serve the Customer's electrical demand and energy needs must be paid by the Customer in full as outlined in the current Council Approved Fee Schedule and Austin Energy's Excess Cost Policy. If a Customer who receives a waiver under the affordable housing exemption fails to meet its affordable housing obligations, the previously waived fees must be returned to Austin Energy in full.</p>

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1.4.8. A	Electric Service Requests - 'Service Only' Service Drop and Service Lateral Installations	Contact AE Spot & Conduit Section for 'service only' requirements to provide electric service to four meters or less of single-phase 120/240V electric service of 35 400 amps or less or three-phase electric service of 35 400 amps or less
1.4.8. A.1	same	See Section 1.4.9 for 'service only' to single-phase electric service of 35 400 amps or more or to three-phase electric service of 35 400 ampere or more of combined main disconnect capacity as
1.4.8. C	Electric Service Requests - 'Service Only' Service Drop and Service Lateral Installations	Determining Meter Location and Point of Service for 'Service Only' to Single Unit Residential and Small Commercial. (Single-phase 120/240V electric service of 35 400 amps or less or three-phase electric service of 35 400 amps or less of combined main disconnect capacity as determined by the manufacturer's equipment rating.)
1.4.9.A.5	Electric Service Requests - Service to Residential, Commercial, and Other Types in Non-Network Area	Larger 'service only' requests for single-phase electric service requiring 35 401 amps or more
1.5.2.1.I 	TYPES OF PERMANENT ELECTRIC SERVICE/COMMERCIAL Service in Non Network Areas	For Customer services requiring meter bases rated over 35 400 amps, the pole or rack must be engineered and a drawing provided to AE Design confirming that the structure will support the AE overhead service tension.
1.5.2.3.B Table	TYPES OF PERMANENT ELECTRIC SERVICE/COMMERCIAL Service in Non Network Areas	Replace: 350 to 400
1.5.2.3.C.3	TYPES OF PERMANENT ELECTRIC SERVICE/COMMERCIAL Service in Non Network Areas- Overhead Secondary Voltage Service - Commercial	<i>For multiple service head, Customer service conductors shall reach the rack(s) on the building (plus 36 inches). Each service weatherhead shall have a full current- neutral.</i>

1.5.2.4.A.2	COMMERCIAL Service in Non Network Areas/Customer-installed Underground Services and Civil Work for AE Infrastructure- Primary and Secondary Conduit, Pull-Boxes/Manholes, and Equipment Pads for AE Infrastructure	All primary and secondary underground infrastructure conduit, in which AE installs AE conductors, shall be rigid metal or schedule 840 PVC.
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1.5.2.4.A.2	same 	The conduit shall be limited to a maximum of four quarter bends (360 180 degrees total)  between accessible pulling points (for example, transformer and pull-box).
1.5.2.4 B.1	COMMERCIAL Service in Non Network Areas/Customer-installed Underground Services and Civil Work for AE Infrastructure	1.COA Electrical Inspection Section must inspect the Customer-installed and -owned service lateral conductors and the Customer-owned electrical service equipment. AE must inspect the service lateral conduit on the source side of the AE meter (see Section 1.5.2.4.B.2-7).
1.5.2.4 B.3	same	Replace: 3.The Customer-installed service lateral conduit installed on the source load side of the AE meter point of service shall be run from the AE energy supply point to the closest point on the Customer's building or structure or equidistant (as designated by AE Design or AE Spots & Conduit) to a rack or pedestal (pre-approved by AE Design) suitable for mounting the riser conduit and AE meter base.
1.5.2.4.B.5	same	Multiple service conductors that are furnished, installed, owned, and maintained by the Customer and that are serviced by AE from one service point location shall grouped be labeled (cable tagged) with circuit and phase at both ends of the conductor. Additionally, the service conductor shall be labeled at the point of service and at the point where it enters the building or meter rack with the ID number of the transformer it is served by.
1.5.2.4.B.9	COMMERCIAL Service in Non Network Areas/Customer-installed Underground Services and Civil Work for AE Infrastructure	9.Neutral conductors of 3-phase and single-phase connected services shall have the full current carrying capacity of the largest energized conductor from the Customer's service point to the Customer's service disconnect(s) at the service equipment. The neutral conductor must be properly marked and <i>De Rated Neutrals - grounded.</i> <i>ORDINANCE change?</i>
1.5.2.4.B.10	same	Remove: The neutral conductor must have the full current carrying capacity of the largest energized conductor(s) (see Sect. 1.5.2.4.B.9).
1.5.2.4.B.12	same	Remove: Service conductors must be consistent in size, type (copper or aluminum), and such through the metering equipment.

1.5.2.4.B.14	same	Remove: When the Customer desires AE to install the meter on the building or structure (rather than taking service at the transformer or service-box/pull-box), AE requires that the Customer installed, owned, and maintained service conduit and service lateral conductors installed ahead of the AE meter(s) not be installed under or through a building or structure, including, but not limited to, porches, stairways, decks, carports, garages. Should future ordinances or legislation require the AE meter to be the point of service and where the above conditions are not met, t
Section Reference	Section Titles	Final Change in DCM
1.5.2.6 A	COMMERCIAL Service in Non Network Areas/Customer Pad mounted Transformer Secondary Voltage Service - Commercial	Remove: NEC
1.5.2.6.D.1.e	COMMERCIAL Service in Non Network Areas/Customer Pad mounted Transformer Secondary Voltage Service - Commercial	Remove: (30 inches below grade to the top of the conduit) Remove: (24 inches below grade to top of conduit) Remove: ahead of the AE meter Add: "up to and including the point of service"
1.5.2.7.A.7	Primary Voltage Service (Overhead and Underground) Commercial	Remove: NESC and
1.5.2.9.B.5.b	Secondary Voltage Service to Multiple-Meter/Shell Commercial Buildings	Remove: The required number and size of service conductors, as per calculated load for entire building per the NEC, must be pulled from service point and properly terminated in service distribution enclosure
1.5.3.3.3	RESIDENTIAL Service in Non Network Areas-Overhead Residential Installations	For Customer services requiring meter bases rated over 35 400 amps, the pole or rack will need to be engineered and a drawing provided confirming that the structure will support the AE overhead service tension.
1.5.3.3.D Table	same	Replace: 350 to 400
1.5.3.4.B.f	RESIDENTIAL Service in Non Network Areas-Underground Residential Electric Service Installations	AE Work Management Section - inspects the service lateral conduit from the service box/pull box to the meter, meter pedestal, or service equipment location, the service-box/pull-box, and the conduit from the service-box/pull-box to the secondary riser, including the 90-degree bend and the 10-foot riser conduit up the pole.
1.5.3.4.B.d	same	d.The Customer shall furnish, install, and maintain the service conduit (approved rigid metal or schedule 80 40 PVC) from the last 90-degree bend ahead of the meter/service location to service box/pull-box.
1.5.3.4.C.2	same	AE will provide single-phase, 120/240V service to residential units with a total combined ampere rating of service disconnects that shall not exceed 35 400 amps for a single

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1.6.3	STREETLIGHTING AND OUTDOOR LIGHTING- Streetlights in Newly Annexed Residential Areas	Remove: New subdivisions in newly annexed residential areas (or areas scheduled for annexation) will pay the standard AE fee per lot as an aid to construction. The fees will be reviewed on an annual basis and are subject to change. (See Fee Schedule in Section 1.11.0 Glossary for the location of the current fee schedule.)
1.8.1.1	CUSTOMER ELECTRIC EQUIPMENT REQUIREMENTS- Customer's Wiring, Service, and Electric Equipment Installation	Customer wiring and electric service shall be inspected by the COA Electrical Inspection Section (and any other authorized inspection entity if located outside of the COA). and (if required by this Design Criteria) inspected by AE or its designee before AE is permitted to connect the service. (See Sections 1.3.0 Characteristics/Basic Requirements of Electric Service and 1.4.0 Requesting/Obtaining Electric Service.)
1.8.1.2	CUSTOMER ELECTRIC EQUIPMENT REQUIREMENTS- Customer's Electric Equipment Load	To ensure adequate and continuous service, AE Design should be notified before additions or alterations are made to the Customer's electrical installation. Additional Customer wiring shall conform to the NESC and NEC
1.9.1.1.A	METERING-Meters, Metering Equipment, and Metering Services	Remove: AE meter socket shall be identified by "AE" stamped into the metal of the meter socket.
1.9.1.1.A	same	The Customer shall furnish, install, own, and maintain meter sockets, approved by Development Services Department the AE Complex Metering Operations Section, for temporary meter loops.
1.9.1.1.A	same	The Customer shall furnish, install, own and maintain meter pedestals when required, transockets, ganged-meter socket assemblies (modular metering), and CT enclosures approved by the AE Complex Metering Operations Section.
1.9.1.1.B	same	B.The Customer shall allow up to five (5) working days for the installation of the AE Complex Metering Operations equipment by AE after final inspection is approved by the AE Complex Metering Operations Section.
1.9.1.2.B	METERING-Meters, Metering Equipment, and Metering Services/ Metering Equipment	Contact Austin Energy Complex Metering Operations Section for Specifications or approval of metering equipment and enclosures.
1.9.1.9	Current Transformers (CTs) and Enclosures	Replace: 350 Amp to 400 Amp
TABLE 1.9.1.9.B	Current Transformers (CTs) and Enclosures	Replace: 351 Amp to 400 Amp
1.9.1.10.S	METERING-Metering Large Capacity Services	Instrument meter installations must be inspected by Development Services Department the AE Complex Metering Operations Section before the meters are set and the service energized.
1.9.1.11	METERING-Application of Metering equipment	Table 1.9.1.11 provides the requirements for application of meter sockets and enclosures as follow the current NEC standards and see Austin Energy website for compatible metering equipment with Austin Energy's meters.
1.9.1.11. Table	same	Remove:Table 1.9.1.11

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1.9.4.2		Before any commercial or residential unit may be submetered, approval must be obtained from Development Services Department the AE Complex Metering Inspections . Approval shall be based on compliance with the requirements in the following subsection.
1.9.3.3	Installation of Metering Equipment/Mounting of Meter Sockets, Transockets, and Enclosures	Add D. Buildings or structures used for mounting and/or accessing meter sockets shall be capable of transferring the expected loads in its life period safely to the ground. Design of various structural components like slabs, beams, walls, rails, stairs, platforms, and footing should ensure safety. None of the structural components should buckle, overturn or collapse. Structural components shall be designed that deflections do not exceed the permissible values specified in the code. Structures constructed outside of un-incorporated areas not requiring building inspections shall be designed by licensed professional engineer and inspected by Certified Building Professional with confirmation of approval prior to Austin Energy service connection.
1.10.3	Permanent Clearances from AE Overhead Lines and Facilities	Remove: HIGHLY RECOMMENDED: For safety reasons, the Customer should contact AE Design to determine the permanent NESC and AE clearance requirements and the during-construction temporary clearance requirements (especially for any building that is closer than 10 feet measured horizontally from the outermost part of any existing AE overhead facilities). In some instances, it may be necessary for the Customer to request (and pay for) AE to relocate AE facilities or to have the electric power de-energized before working near AE facilities.
1.10.3 Figure	Permanent Clearances from AE Overhead Lines and Facilities	Update image of new clearance 7'-6" infinitely horizontal clearance
1.11.0 Glossary	Glossary	Add: Structure - A combination of materials to form a construction for occupancy, use or ornamentation, whether installed on, above or below the surface of a parcel of land; provided the word "structure" shall be construed when used herein as though followed by the phrase "shall be construed when used herein as though followed by the phrase " or part or parts thereof and all equipment therein" unless the context clearly defines a different meaning.
1.13.2.A	Basic Residential/Commercial Work Flow Process	Where the requirements of single buildings or structures are for 35401 amps or more of single-phase or 226 amps or more of
Figure 1-13	Appendix Image	REMOVE: Ground wire on Bottom of 4"x4". Add "Ground per NEC."
Figure 1-14	Appendix Image	REMOVE: Ground wire on Bottom of 4"x4". Add "Ground per NEC."
Figure 1-16A	Appendix Image	Meter Loop for permanent Underground Service Installation (Residential/Commercial- Typical Installation) pg.12 Appendix C ADD: 4"x4" Pressure Treated Pole REMOVE: require minimum 4"x4" galvanized steel pole ADD: 2"x4" Pressure Treated Wood REMOVE: require minimum 1 ½" steel channel (wood will not be accepted)

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